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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/519,634	12/28/2004	Christopher Davies	3556 P 006	9142	
23424	7590 07/11/2006		EXAMINER		
WALLENSTEIN & WAGNER, LTD.			A, MINH D		
311 SOUTH WACKER DRIVE 53RD FLOOR		ART UNIT	PAPER NUMBER		
CHICAGO,			2821		
			DATE MAILED: 07/11/200	DATE MAILED: 07/11/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/519,634	DAVIES, CHRISTOPHER				
		Examiner	Art Unit				
	-	Minh D. A	2821				
<del></del>	The MAILING DATE of this communication ap						
Period fo	or Reply						
WHIC - Exter after - If NC - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLICHEVER IS LONGER, FROM THE MAILING DISSIONS of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statutively received by the Office later than three months after the mailing dispatent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 01 M	May 2006.					
·	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	Claim(s) 1,4-10 and 12 is/are pending in the a	application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)[	5) Claim(s) is/are allowed.						
6)⊠	⊠ Claim(s) <u>1,4-10 and 12</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[	Claim(s) are subject to restriction and/o	or election requirement.					
Applicati	on Papers						
9) 🗔 .	The specification is objected to by the Examino	er.					
-	The drawing(s) filed on is/are: a)☐ acc		Examiner.				
	Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) 🔲	The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.				
Priority u	nder 35 U.S.C. § 119						
-	Acknowledgment is made of a claim for foreigr ☐ All  b)☐ Some * c)☐ None of:	n priority under 35 U.S.C. § 119(a)	-(d) or (f).				
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Burea						
* S	ee the attached detailed Office action for a list	of the certified copies not received	d.				
Attachment	(s)						
	e of References Cited (PTO-892)	4) Interview Summary (					
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa	te atent Application (PTO-152)				
	No(s)/Mail Date	6)	, ,				

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#### DETAILED ACTION.

Applicant 's communication filed on 5/1/06 has been carefully considered by the examiner. The arguments advanced therein are persuasive with respect to the rejection of record, and those rejection are accordingly withdraw. In view of a further consideration, however, a new rejection is set forth below. This action is not made final.

## Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

## Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or

REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)

- (f) BACKGROUND OF THE INVENTION.
  - (1) Field of the Invention.
  - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).

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(k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).

(I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

### Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1, 4-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, the phrase "wherein when the body moves in one direction a phase length at least a first open circuit associated with the first plurality of conductive strips is lengthened and a phase length at least a second open circuit" renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention, which elements or drawing disclose a first and second open circuit and a phase length. See MPEP § 2173.05(d).

#### Claim Objections

3. Claim 1 is objected to because of the following informalities:

Regarding claim 1, lines 8-9, should be deleted "at ". Appropriate correction is required.

Claim Rejections - 35 USC § 102

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4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for

patent in the United States.

5. Claim 12 is rejected under 35 U.S.C. 102(b) as being anticipated by Butland et al.

(US 5,440,318).

Regarding claim 12, Butland disclose a round tilting antenna array comprising:

a phase shifting device comprising: a body slidable relative to a printed circuit board;

and, a plurality of oppositely sensed antenna elements (1-4) mounted to the circuit

board(5) in a vertical elongate array and defining upper antennae and lower antennae,

the upper antennae being connected to feed lines(8-9, 10) that are lengthened when the

body is moved in a first direction and the lower antenna elements being connected to

the feed lines that are shortened when the body is moved in the first direction, whereby

a phase shift is caused along the length of the array. See figures 1, 4D, 5A, col.2, lines

51-67 to col.5, lines 1-47.

Allowable Subject Matter

6. Claims 1, 4-10 would be allowable if rewritten or amended to overcome the

rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

# Citation of relevant prior art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sinsky (US 6,208,222) and West et al. (US 6,650,291) are cited to show a phase shifter array antenna.

### Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Dieu A whose telephone number is (571) 272-1817. The examiner can normally be reached on M-F (5:30 AM-2:45 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Examiner

Minh A

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6/30/06

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